

ATRIUM COMPANIES, INC.

SERIES 8900/90/8000/1800/3900

DOUBLE HUNG WINDOW (NON-HVHZ)(NON-IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
 - AAMA 450-10
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: PVC
7. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAIL.
8. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X: OPERABLE PANEL

O: FIXED PANEL

OVERALL SIZE		CONFIGURATION	INSTALLATION METHOD	DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT				
48"	77-3/4"	X/X	THRU FRAME	+/- 30 PSF	NON-IMPACT
44"	73-3/4"	X/X	THRU FRAME & NAIL FIN	+/- 45 PSF	
36"	73-3/4"	X/X	THRU FRAME & NAIL FIN	+/- 60 PSF	
109"	74"	X/X-X/X-X/X	THRU FRAME	+/- 50 PSF	
72"	108"	O/(X/X-X/X)	THRU FRAME	+/- 40 PSF	

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Part of the Cornerstone Building Brands Family

ATRIUM COMPANIES, INC.
300 Welcome Center Blvd.
Welcome, NC 27374
(336)-764-6400

TITLE:
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DOUBLE HUNG WINDOW
(NON-HVHZ)(NON-IMPACT)
GENERAL NOTES

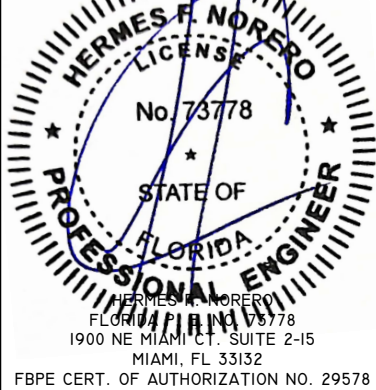
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT., SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
FBC 2017 CODE CHANGE	AG	10.03.17
ADDITION OF NAIL FIN	HR	03.27.18
2020 FBC CODE CHANGE	NUS	08.17.20
Current FBC & EC24-100	LH	03.05.25

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2025.03.11 11:54:11 -0500



FL #:

FL20473

DATE:

03.27.18

DWG. BY:

HR

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

ATR127

SECTION:

1

OF 8

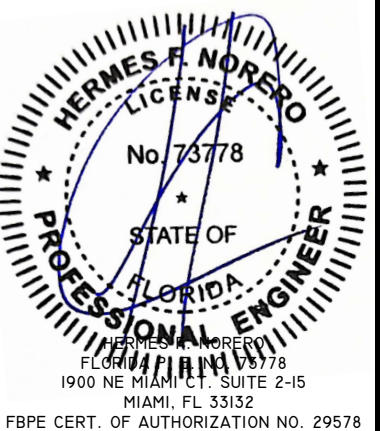
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SERIES 8900/90/8000/1800/3900
DOUBLE HUNG WINDOW
(NON-HVHZ)(NON-IMPACT)
ELEVATIONS AND ANCHOR LAYOUT

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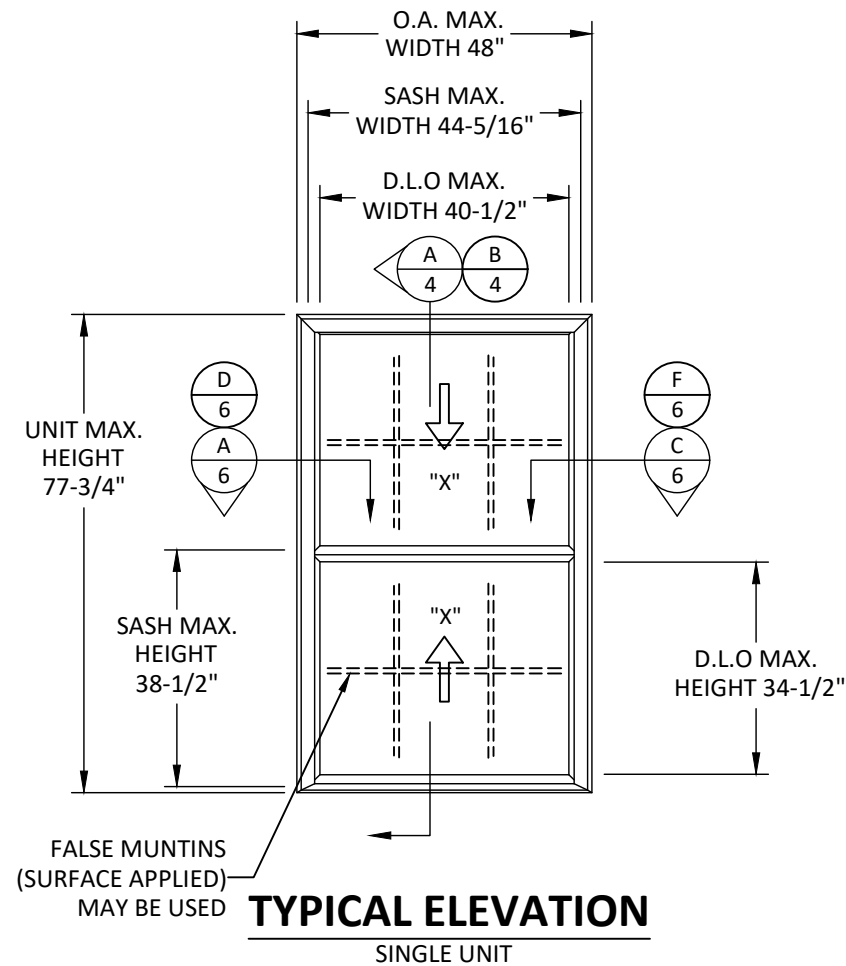
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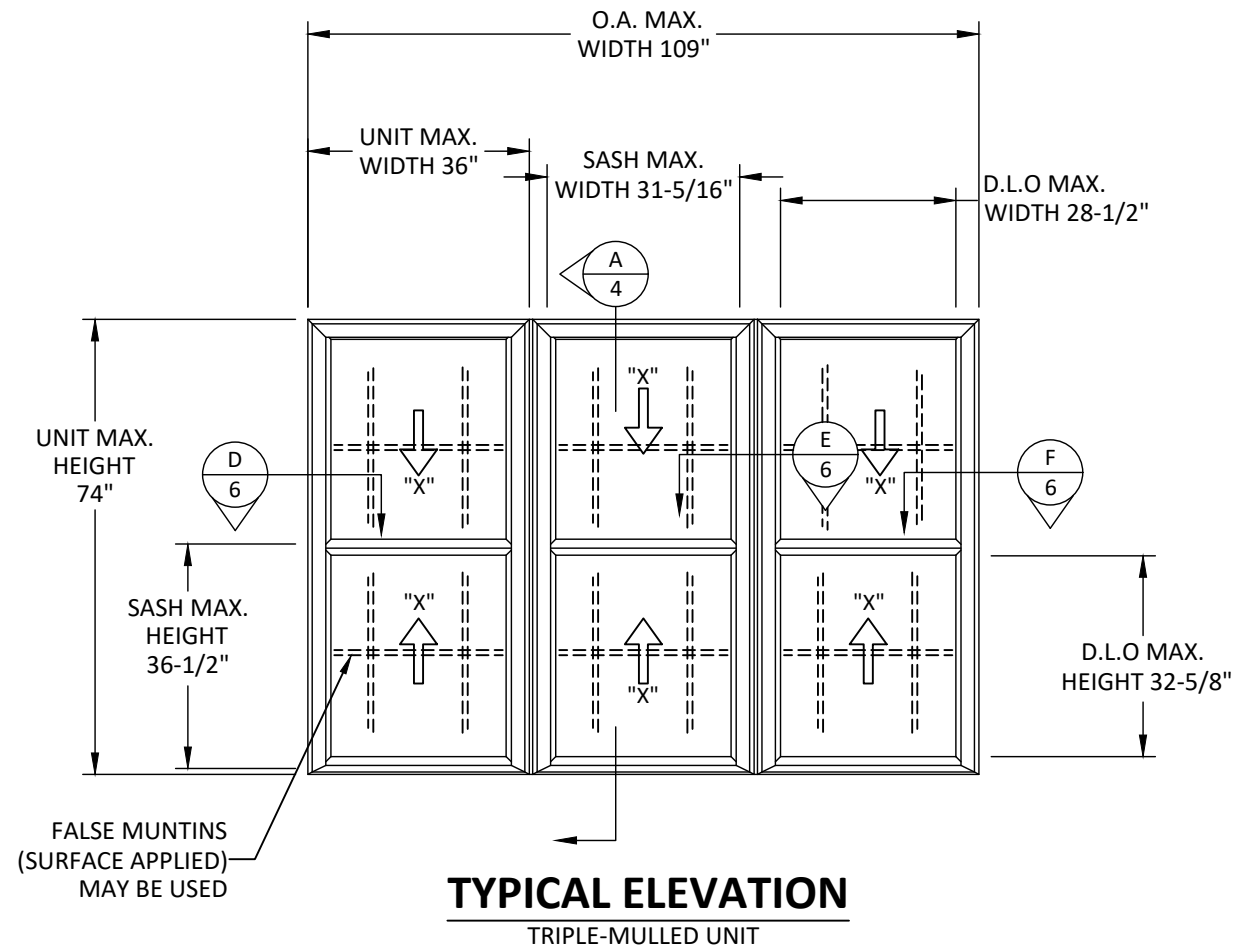
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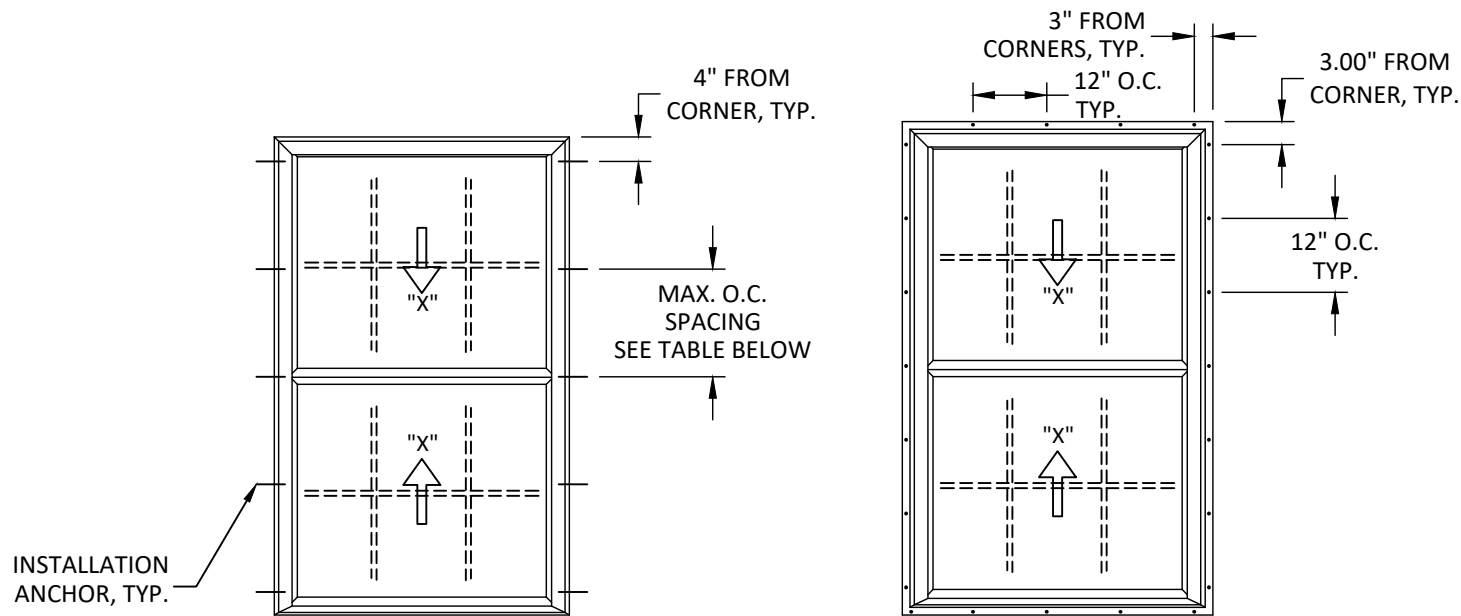
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TYPICAL ELEVATION
SINGLE UNIT



TYPICAL ELEVATION
TRIPLE-MULLED UNIT

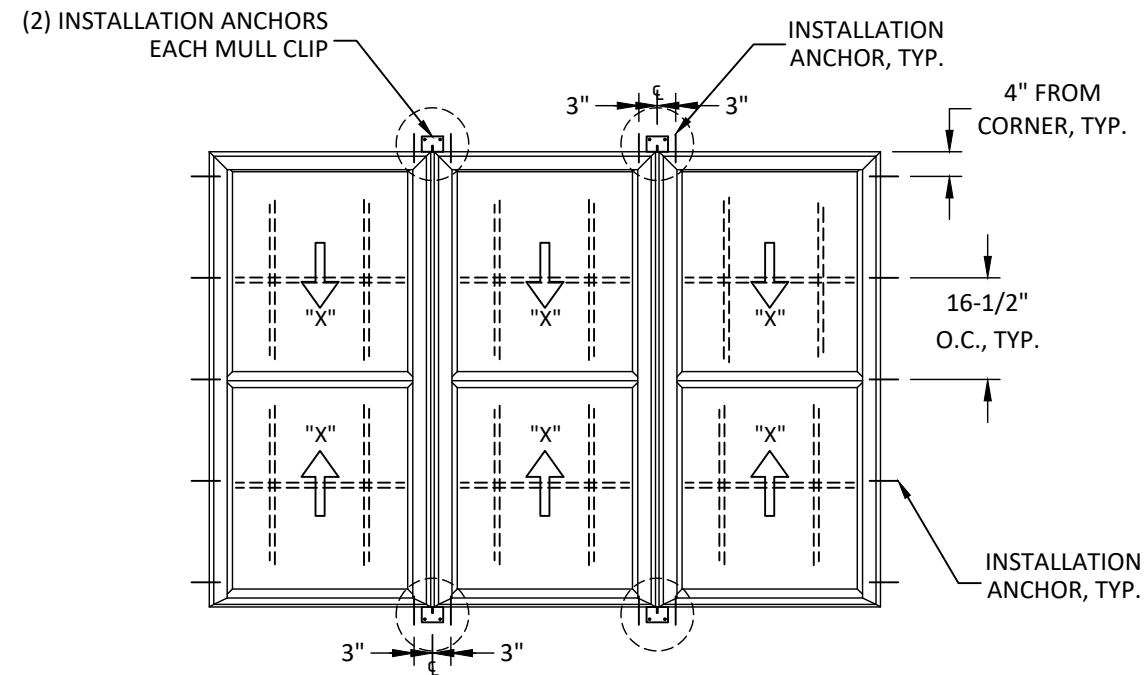


ANCHOR LAYOUT
SINGLE UNIT - THRU FRAME

ANCHOR LAYOUT
SINGLE UNIT - FIN

THRU FRAME ANCHOR SPACING - SINGLE UNITS ONLY				
UNIT SIZE	DESIGN PRESSURE	MAX. O.C. SPACING		
		HEAD	SILL	JAMBS
48" X 77-3/4"	30 PSF	---	---	17-7/16"
44" X 73-3/4"	45 PSF	---	---	13-3/16"
36" X 73-3/4"	60 PSF	---	---	12-11/16"

FOR SMALLER UNIT SIZES NOT SHOWN USE ANCHOR SPACING FOR THE NEXT LARGEST LISTED SIZE.



ANCHOR LAYOUT
TRIPLE-MULLED UNIT - THRU FRAME

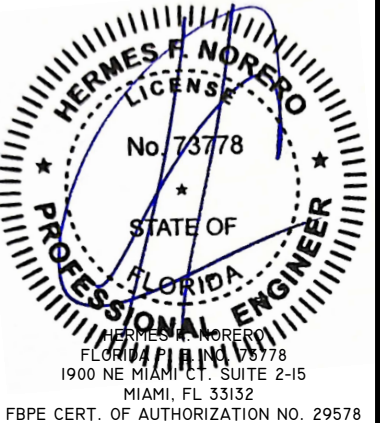
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SERIES 8900/90/8000/1800/3900
DOUBLE HUNG WINDOW
(NON-HVHZ)/(NON-IMPACT)
ELEVATION, ANCHOR LAYOUT, GLAZING &
MULLION DETAILS

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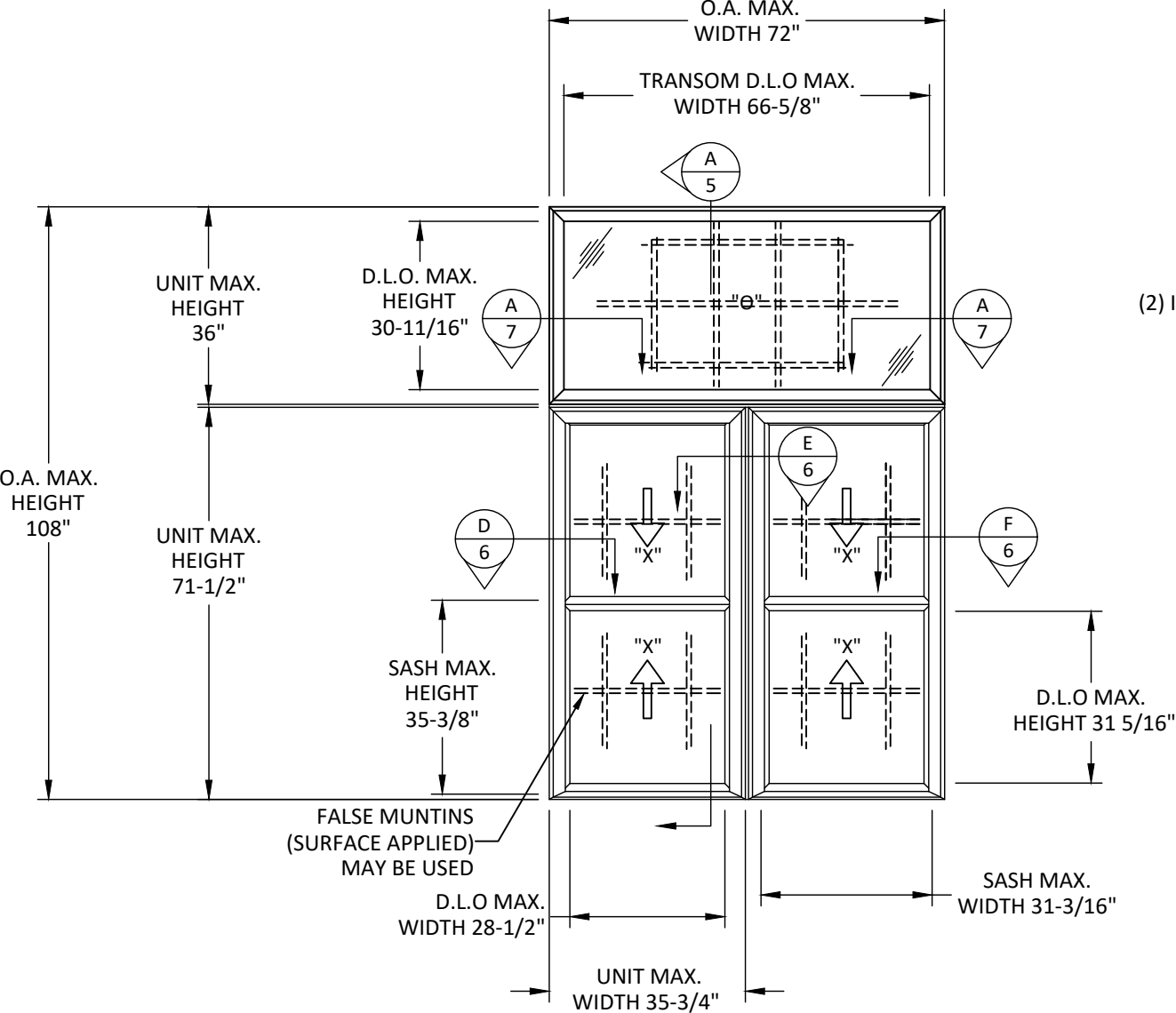
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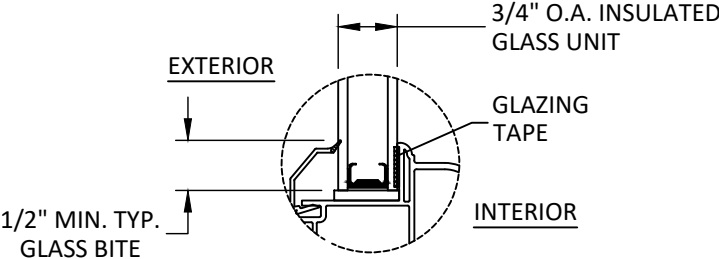
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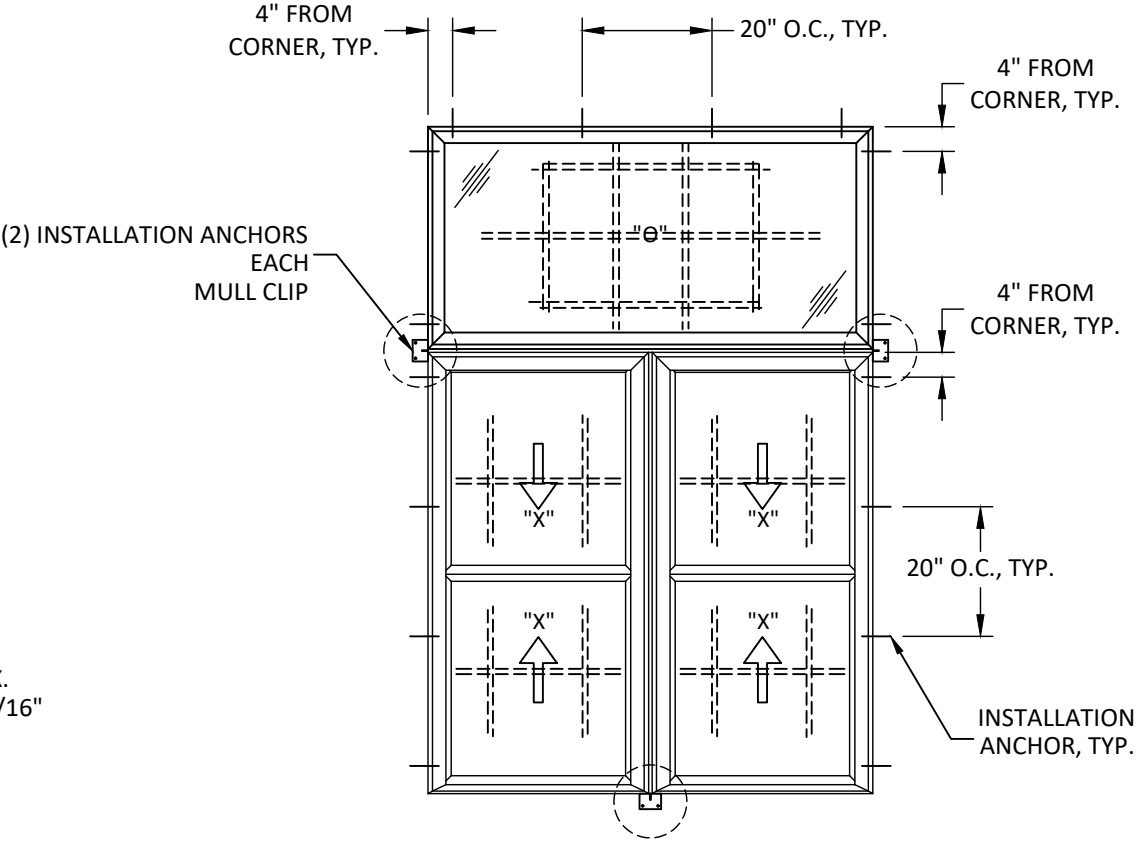


TYPICAL ELEVATION
TWIN W/ TRANSOM MULLERED UNIT

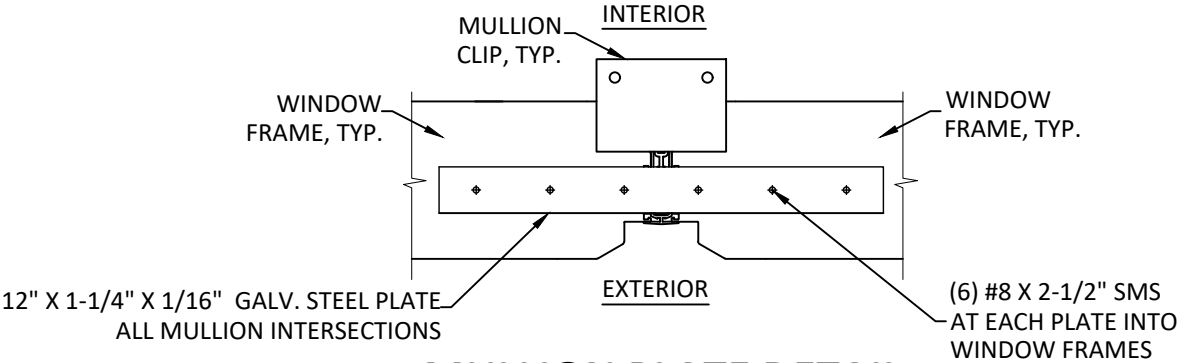


GLAZING DETAIL 1

NOTE:
GLASS THICKNESS AND TYPE
SHALL COMPLY WITH ASTM E
1300 GLASS CHART
REQUIREMENTS.



ANCHOR LAYOUT
TWIN W/ TRANSOM MULLERED UNIT - THRU FRAME



MULLION PLATE DETAIL
TYPICAL WHEREVER MULLION CLIPS OCCUR

ATRIUM COMPANIES, INC.
300 Welcome Center Blvd.
Welcome, NC 27374
(336)-764-6400

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DOUBLE HUNG WINDOW
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VERTICAL SECTIONS

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MIAMI, FL 33132
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WEB: www.buildingdrops.com



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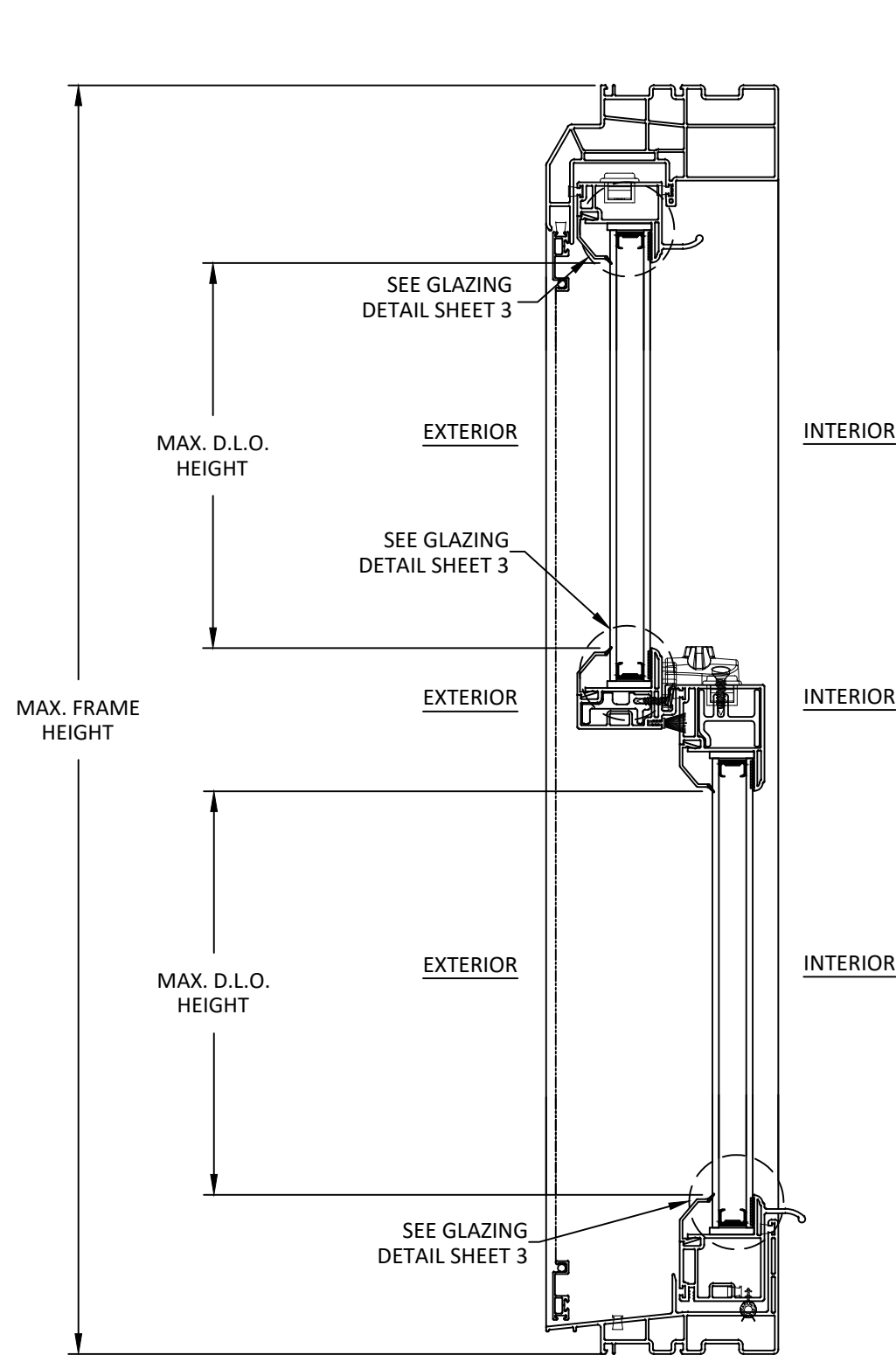
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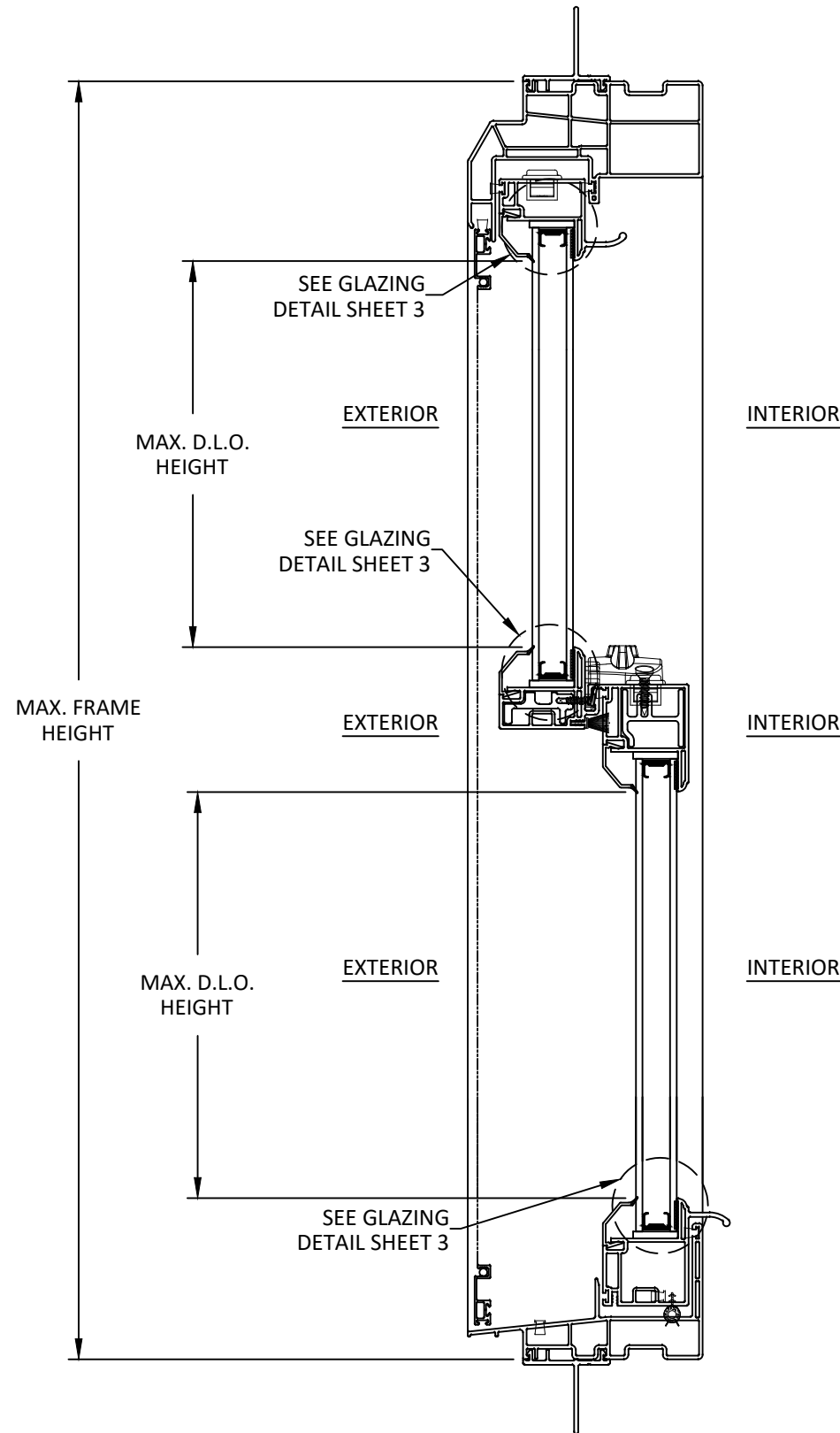
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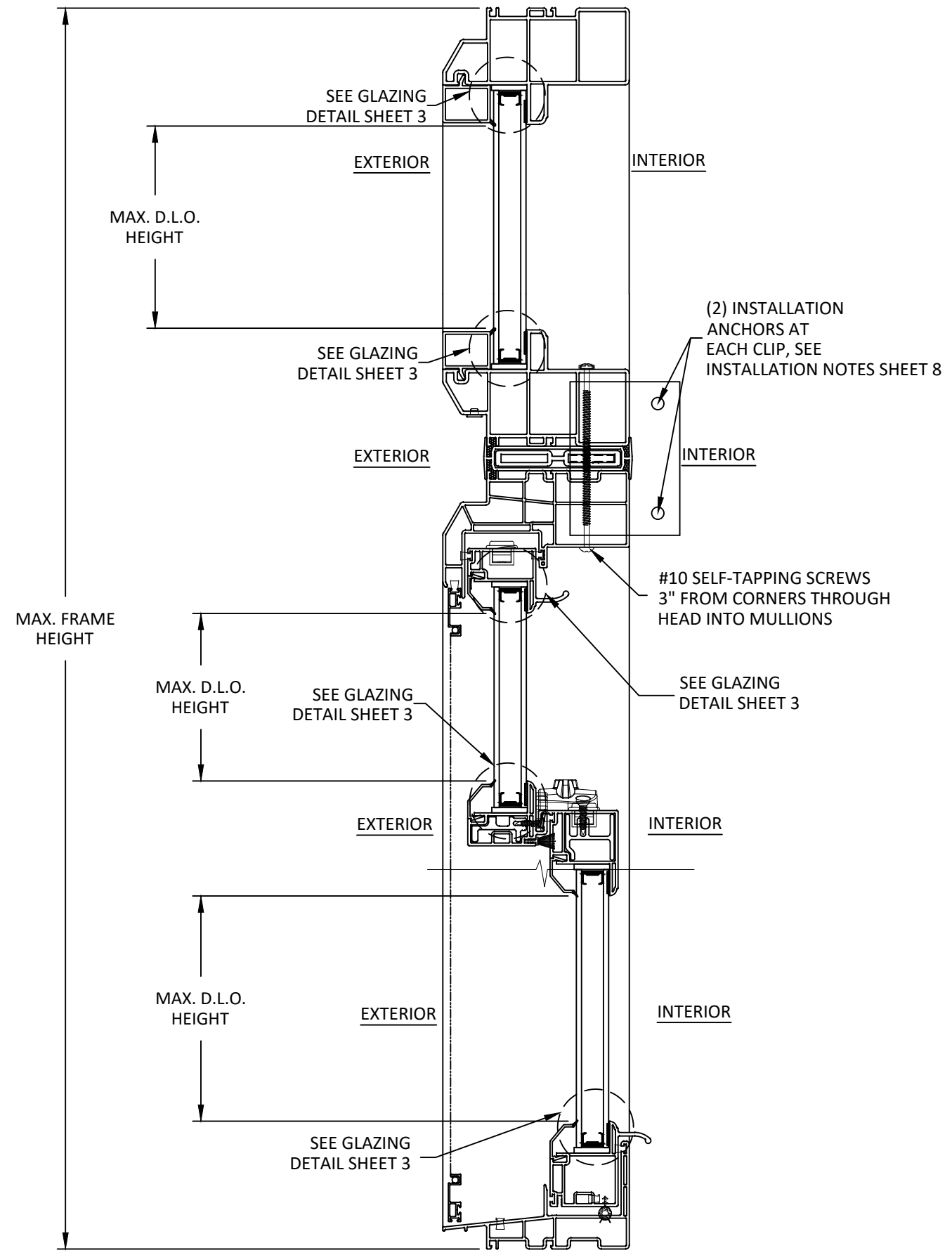
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A
4 **VERTICAL SECTION**
THRU FRAME INSTALLATION



B
4 **VERTICAL SECTION**
FIN INSTALLATION



A
5 **VERTICAL SECTION**
THRU FRAME INSTALLATION

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HORIZONTAL SECTIONS

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LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
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FLORIDA, LICENSE NO. 73778
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FBPE CERT. OF AUTHORIZATION NO. 29578

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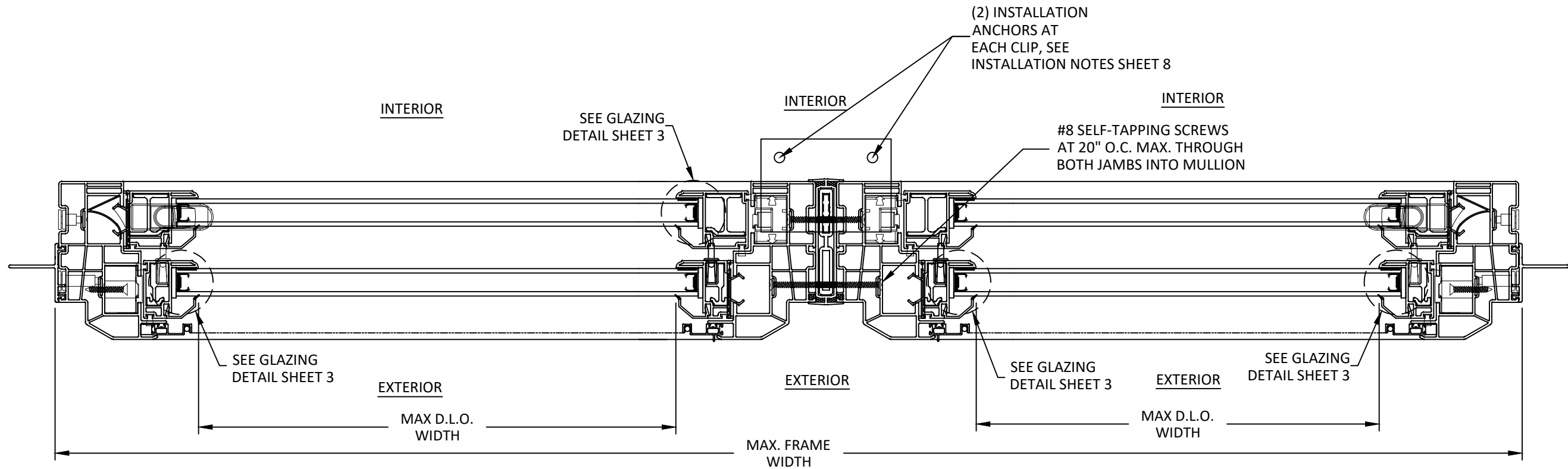
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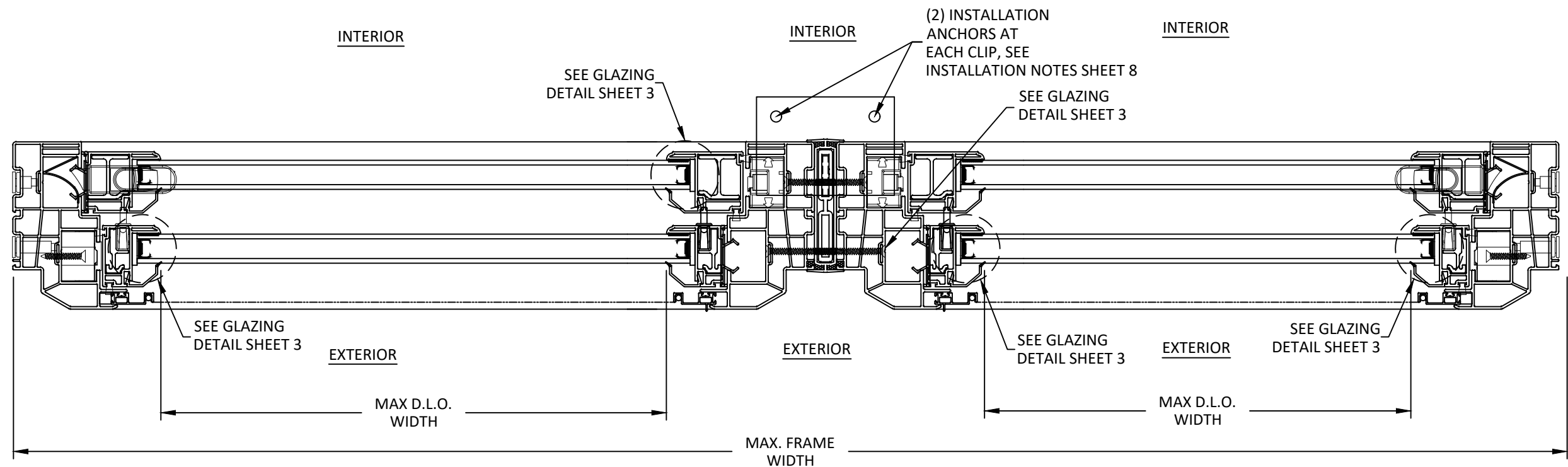
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A
6 **HORIZONTAL SECTION**
JAMB (NAIL FIN)

B
6 **HORIZONTAL SECTION**
VERTICAL MULLION

C
6 **HORIZONTAL SECTION**
JAMB (NAIL FIN)



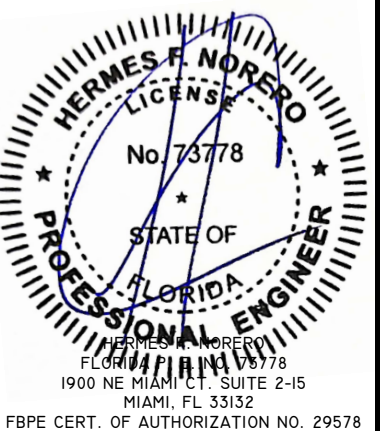
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JAMB (THRU FRAME)

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6 **HORIZONTAL SECTION**
VERTICAL MULLION

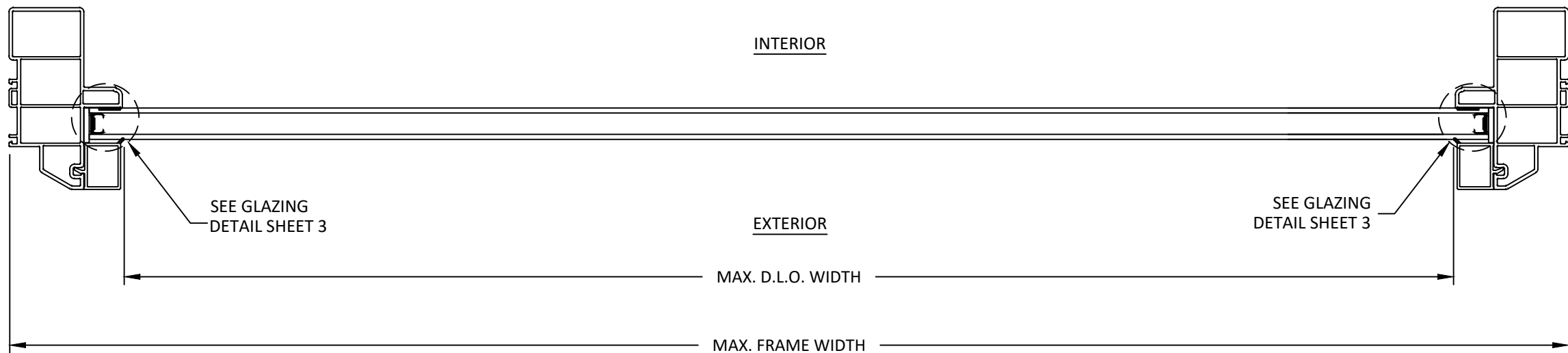
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6 **HORIZONTAL SECTION**
JAMB (THRU FRAME)

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SECTION:	6



A
7

HORIZONTAL SECTION
TRANSOM THRU FRAME

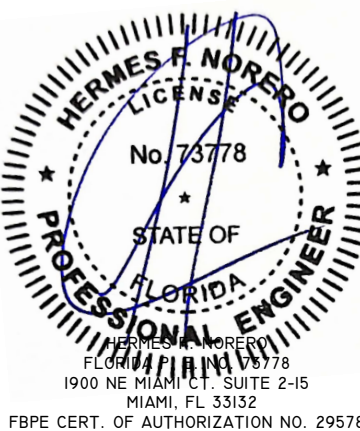
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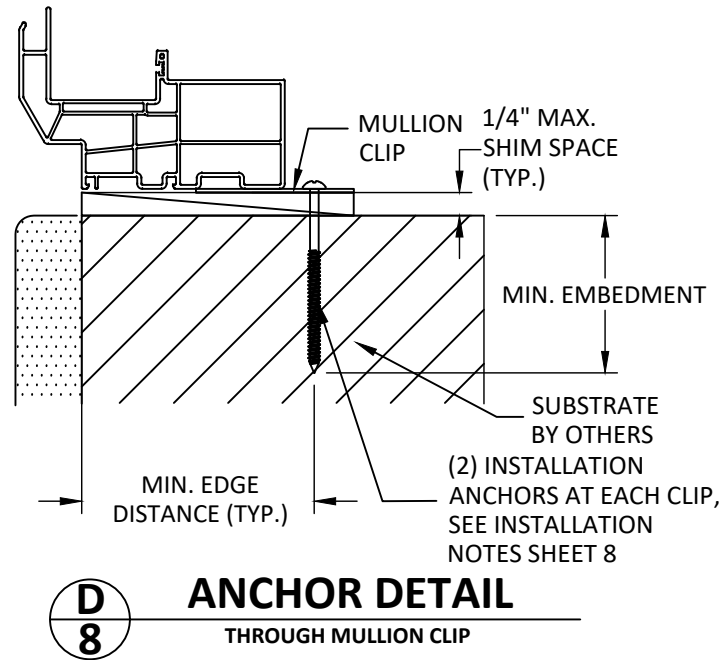
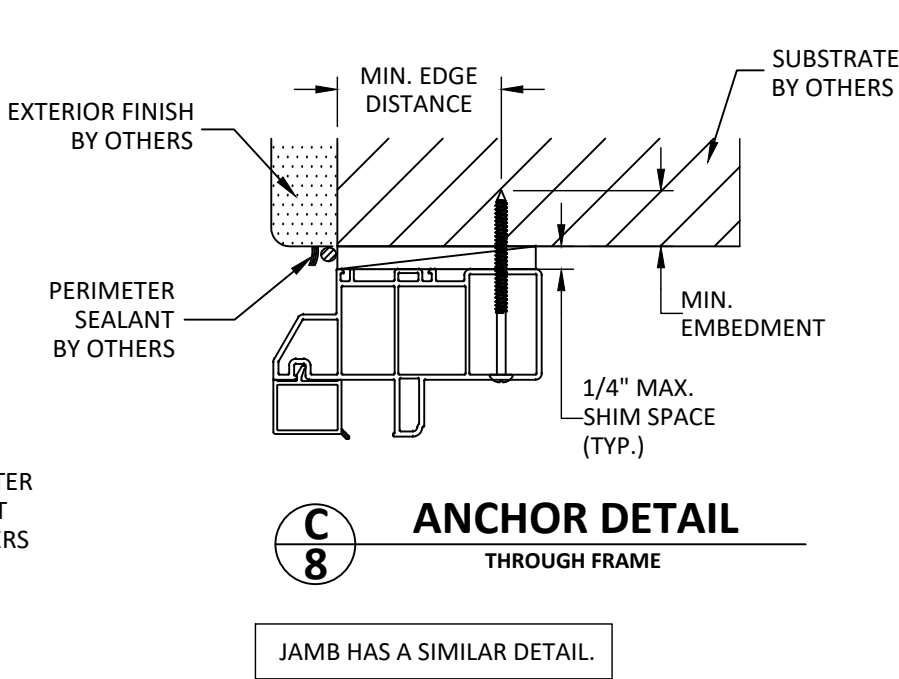
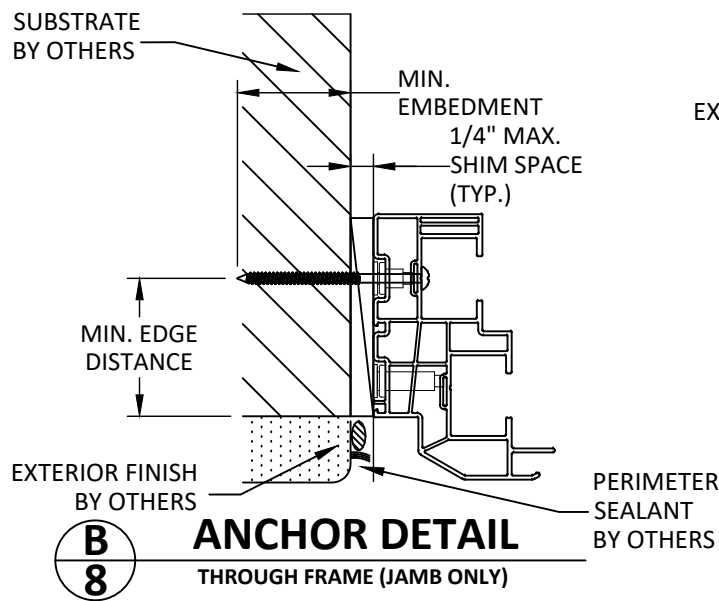
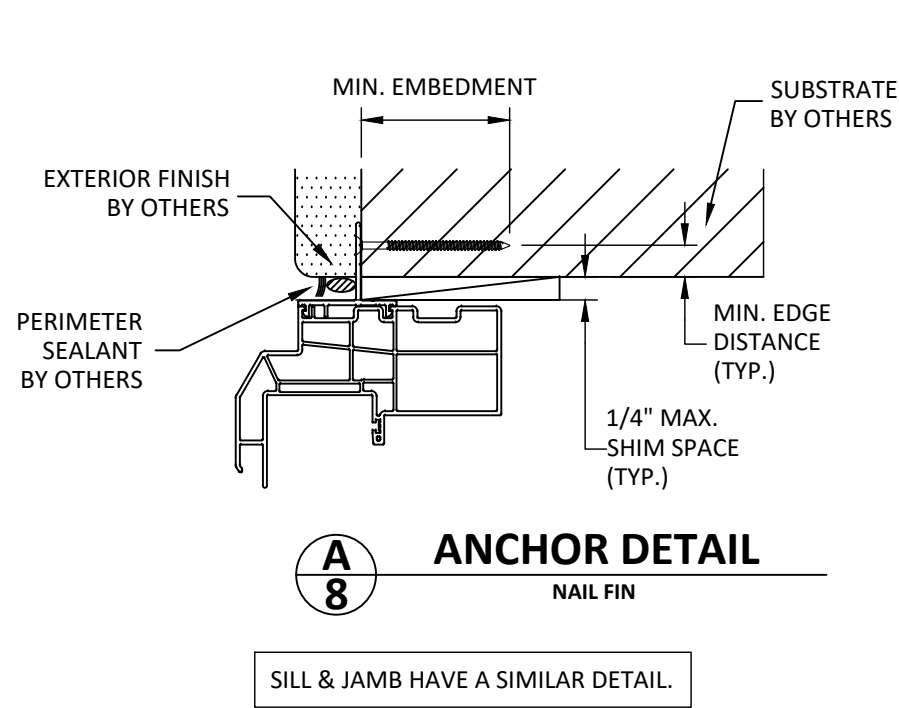
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SCALE: **NTS**

DWG. #: **ATR127**

SECTION:
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ANCHOR SCHEDULE					
INSTALLATION TYPE	ANCHOR QTY PER LOCATION	SUBSTRATE	ANCHOR TYPE	EMBEDMENT (IN.)	EDGE DISTANCE (IN.)
NAIL FIN	1	WOOD : MIN. SG=0.42	#8 WOOD SCREW	1-1/2"	0.75
	1	METAL : 18 GAUGE STEEL, MIN. F _y =35KSI	#8 TEK SCREW	3 THREADS MIN. PENETRATION	1/2"
THROUGH FRAME	1	WOOD : MIN. SG=0.42	#10 WOOD SCREW	1-1/2"	3/4"
	1	METAL : 18 GAUGE STEEL, MIN. F _y =35KSI	#10 TEK SCREW	3 THREADS MIN. PENETRATION	1/2"
	1	CONCRETE : f' _c =3000PSI	1/4" ELCO TAPCON	1-3/4"	2-1/2"
	1	CMU : f' _c =2000PSI	1/4" ELCO TAPCON	1	2-1/2"

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- FOR MASONRY OR CONCRETE OPENINGS, 1X WOOD BUCK MAY BE USED (OPTIONAL AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MIN. 2000 PSI COMPRESSIVE STRENGTH.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS (20 GAUGE).
 - ALUMINUM - MINIMUM 6063-T5 ALLOY. MINIMUM WALL THICKNESS OF 1/8".

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